

Title (en)
Multi-cyclone dust separating apparatus

Title (de)
Staubsaammelvorrichtung mit mehreren Zyklonen

Title (fr)
Collecteur de poussière à cyclones multiples

Publication
EP 1779761 A3 20080730 (EN)

Application
EP 06291286 A 20060808

Priority
KR 20050102613 A 20051028

Abstract (en)
[origin: EP1779761A2] A multi-cyclone dust separating apparatus has a main cyclone (200) comprising one or more cyclones, a sub cyclone (300) comprising one or more cyclones (310,320), and being arranged around a part of the main cyclone (200) in parallel relation, and a dust collecting casing (400) provided to enclose the main (200) and the sub cyclones (300), and collects dust as the dust is separated from the air in the main (200) and the sub cyclones (300). At least a part of the dust collecting casing (400) enclosing the main cyclone (200) is formed in a half-circular shape.

IPC 8 full level
A47L 9/16 (2006.01)

CPC (source: EP KR US)
A47L 9/10 (2013.01 - KR); **A47L 9/16** (2013.01 - KR); **A47L 9/1625** (2013.01 - EP US); **A47L 9/1641** (2013.01 - EP US);
A47L 9/1683 (2013.01 - EP US); **B04C 5/185** (2013.01 - EP US); **B04C 5/26** (2013.01 - EP US); **Y10S 55/03** (2013.01 - EP US)

Citation (search report)
• [PX] DE 102004055192 A1 20051208 - SAMSUNG KWANGJU ELECTRONICS CO [KR]
• [PX] WO 2006038750 A1 20060413 - LG ELECTRONICS INC [KR], et al
• [PX] US 2006048487 A1 20060309 - SONG HWA G [KR], et al
• [XA] DE 20109699 U1 20011011 - ZUGEN NI JINKELAI CO [CN]
• [E] EP 1774891 A2 20070418 - SAMSUNG KWANGJU ELECTRONICS CO [KR]
• [E] GB 2426473 A 20061129 - DYSON TECHNOLOGY LTD [GB]

Cited by
EP2119387A1; WO2008135708A1; EP2170144A4; EP2231303A4; AU2013279116B2; GB2439169A; GB2439169B; GB2448915B; GB2488479A; GB2488479B; US10314447B2; US10750913B2; US9516982B2; WO2013190309A1; WO2014072469A1; WO2009076774A1; WO2013190308A1; US7581287B2; US10506904B2; US9649000B2; US11445878B2; US10136778B2; US10251519B2; US10842330B2; US9661964B2; US9949601B2; US9668631B2; US9693666B2; US11857142B2; US9609990B2; US10756653B2; US11766156B2; US9392917B2; US10376112B2; US11666193B2; US10264934B2; US11730327B2; US11771280B2; US7749292B2; US7996956B2; US8726461B2; US9160255B2; US10702113B2; US11779174B2; US9370286B2; US10165912B2; US11006799B2; US11122943B2; US11627849B2; US12070176B2; US9609986B2; US10080472B2; US10537216B2; US10722086B2; US10765278B2; US11445875B2; US11737621B2; US10631693B2; US11013384B2; US11903546B2; US11910983B2; US11986145B2; US7803205B2; US7941895B2; US8034140B2; US8250702B2; US8898857B2; US9888817B2; US10149585B2; US10219662B2; US10219661B2; US10219660B2; US10327612B2; US10362911B2; US10624510B2; US11192122B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1779761 A2 20070502; EP 1779761 A3 20080730; EP 1779761 B1 20130626; AU 2006203412 A1 20070517; AU 2006203412 B2 20080403; AU 2006203412 B8 20080501; CN 1954921 A 20070502; KR 100648960 B1 20061127; RU 2006130411 A 20080227; RU 2332920 C2 20080910; US 2007095030 A1 20070503; US 7628833 B2 20091208

DOCDB simple family (application)
EP 06291286 A 20060808; AU 2006203412 A 20060808; CN 200610115083 A 20060823; KR 20050102613 A 20051028; RU 2006130411 A 20060823; US 49066106 A 20060721